

PUBLIC NOTICE

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Pollution Control

7th Floor, L&C Annex

401 Church Street

Nashville, Tennessee 37243

TO WHOM IT MAY CONCERN: The application described below has been submitted for an Aquatic Resource Alteration Permit under *The Tennessee Water Quality Control Act of 1977*, T.C.A. §69-3-108. In addition, federal permits may be required from the U. S. Army Corps of Engineers and the Tennessee Valley Authority under §404 of the *Clean Water Act* and §26a of the *Tennessee Valley Authority Act*, respectively. §401 of the *Clean Water Act* requires that an applicant obtain a water quality certification from the state when a federal permit is required. This notice may cover applications subject to §401.

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **THIRTY (30) DAYS of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

The permit application, supporting documentation including detailed plans and maps, and related comments are available for review and/or copying at the Department's Natural Resources Section.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department shall hold a public hearing in accordance with Rule 1200-4-7-.04(4)(f).

In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

PERMIT APPLICATION: NRS 08.298

APPLICANT:

Khalid Ahmed
Tennessee Department of Transportation
Environmental Division
Suite 900, James K. Polk Building
505 Deaderick Street
Nashville, Tennessee 37243-0338
615-253-0021

LOCATION: The proposed alterations are located along SR-30 over Bradden Creek at L.M. 1.09 (STR-1) and an unnamed tributary to Bradden Creek (STR-2) near Sampson, Bledsoe County (Lat: 35.6839°, Long: -85.2767°), USGS, Sampson, TN (103-NE).

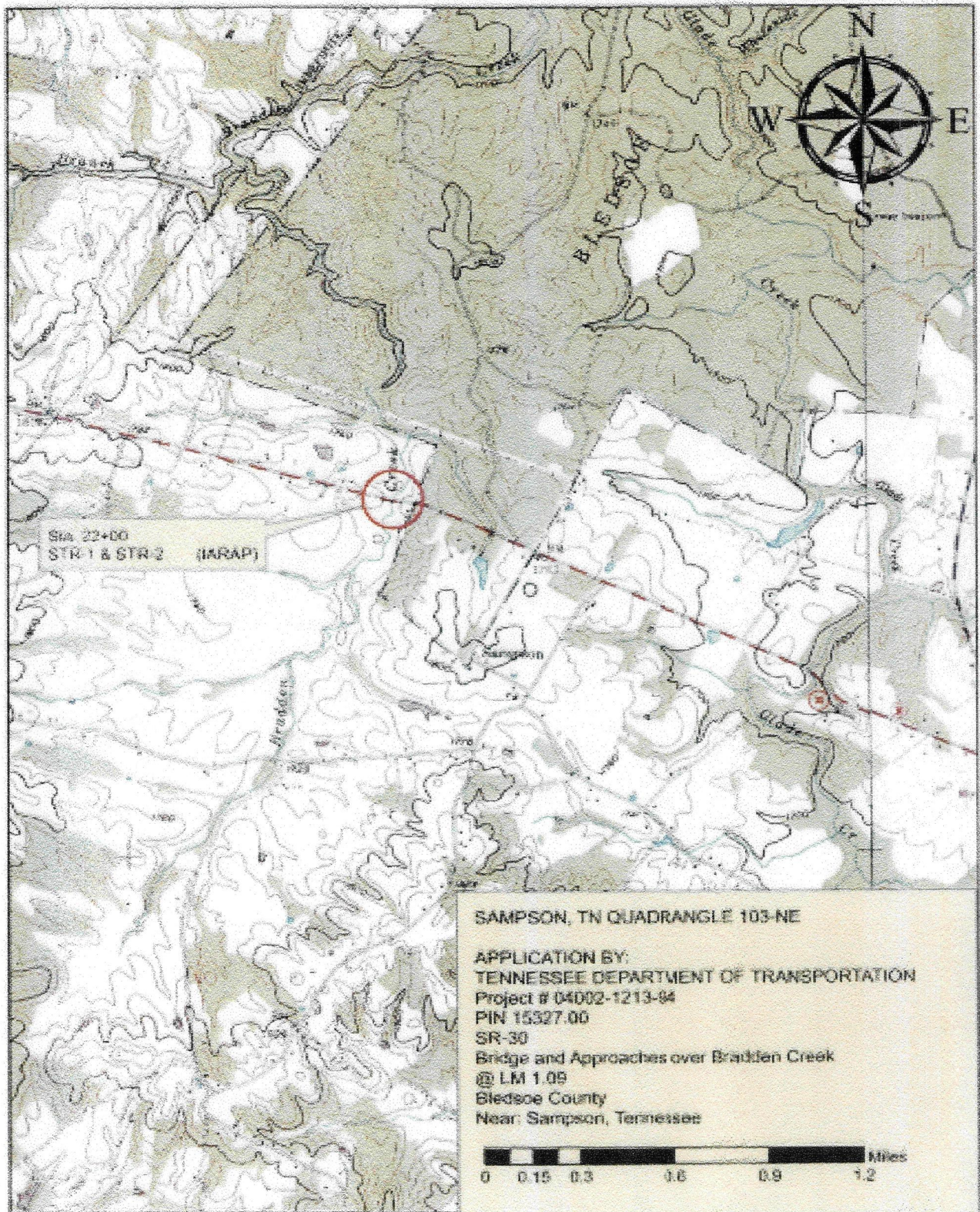
WATERSHED DESCRIPTION: The proposed alterations would impact Bradden Creek and an unnamed tributary to Bradden Creek. These streams are located in the Caney Fork watershed (HUC 05130108033_0310). Bradden Creek, the unnamed tributary to Bradden Creek, and the Caney Fork watershed have been classified for the following designated uses: fish and aquatic life, recreation, livestock watering and wildlife, and irrigation. Bradden Creek is not supporting fish and aquatic life. Bradden Creek is listed on the division's 303(d) list as being impaired for low D.O., and habitat loss due to alteration in stream-side or littoral vegetation due to Pasture grazing.

PROJECT DESCRIPTION: The proposed activity includes alterations to Bradden Creek and an unnamed tributary to Bradden Creek for improvements to 0.20 miles of SR-30. The applicant proposes to replace the existing 23 ft. of single-span steel girder bridge with 90 ft. of 2 at 12 ft. X 10 ft. concrete slab bridge and associated rip-rap along wingwalls. Approximately 98 ft. of Bradden Creek will need to be relocated as transitions to the widened structure and will be replaced and revegetated in-kind. Approximately 15 ft. of stream loss is anticipated in Bradden Creek. Additionally, due to the new width of the new structure, approximately 40 ft. of an unnamed tributary to Bradden Creek will need to be relocated as a transition. The applicant has proposed to provide compensatory mitigation for 15 ft. of stream loss by payment of \$3,000.00 to the Tennessee Stream Mitigation Program (TSMP).

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality. This notice may be viewed on the internet at: <http://www.state.tn.us/environment/wpc/ppo/arap>.

USGS TOPOGRAPHIC QUADRANGLE: USGS, Sampson, TN (103-NE)

PERMIT COORDINATOR: Chip Hannah (615) 532-0713





Bledsoe County, SR 30 bridge and
approaches over Bradden Creek at LM 1.09

30 April 2007

Sampson quadrangle

P.E. No. 04002-1213-94

PIN No. 105327.00



Location Map

Oct 14 2003

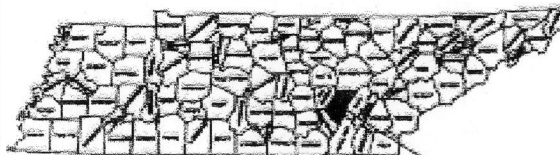
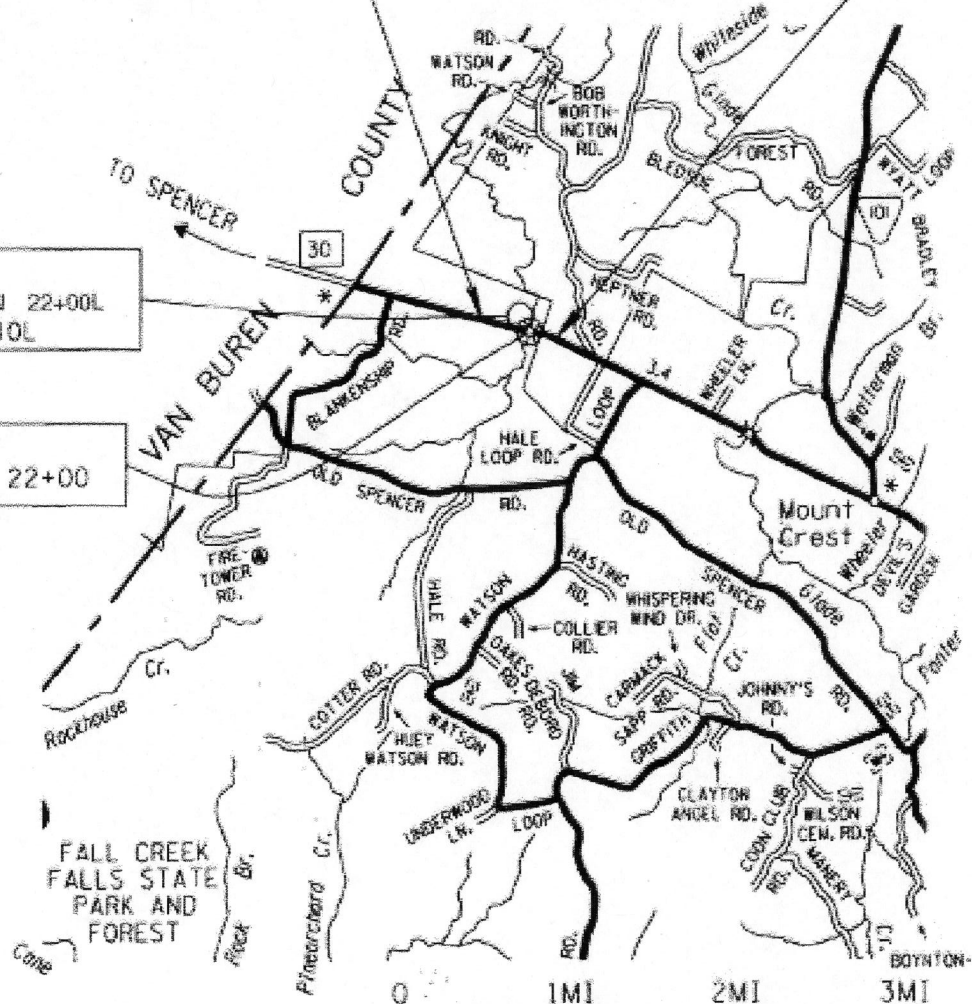
N

BEGIN PROJECT
BR-STP-30(43)
04002-2213-94 (R.O.W.)
STA. 17+87.84

END PROJECT
BR-STP-30(43)
04002-2213-94 (R.O.W.)
STA. 28+61.26

STR-2
STATION 22+00L
TO 22+40L

STR-1
STATION 22+00



BLDSOE COUNTY

APPLICATION BY:

TENNESSEE DEPARTMENT OF TRANSPORTATION
QUAD
PE * 04002-1213-94
PIN * 105327.00
SR 30 - BRIDGE AND APPROACH OVER
BRADDEN CREEK, LM 1.09
NEAR PIKEVILLE TN

Permit Sketch

S.R. 30 LIST OF ENVIRONMENTAL IMPACTS

TABLE ONE			
STATION NO.	IMPACT	LENGTH (FT)	FEATURE IMPACTED
22+00	CULVERT/CHANNEL CHANGES	203	BRADDEN CREEK
22+00 TO 22+40	POSSIBLE RELOCATION	40	UNNAMED TRIBUTARY

TRACT NO.	PROPERTY OWNER	ADDRESS
3	BERNIECE OAKS	RT 3 BOX 184 PIKEVILLE, TN 37367
6	CHAD OAKS	RT 3 BOX 356 PIKEVILLE, TN 37367
7	PAUL J. OAKS AND PAUL DAVID OAKS	RT 4 BOX 221 PIKEVILLE, TN 37367

ENVIRONMENTAL IMPACT TABLE

STA. 22+00 BRADDEN CREEK (STR-1)

EXISTING CONDITIONS

OPEN STREAM IMPACT LENGTH	180 L.F.
STRUCTURE LENGTH	23 FT
IMPACTED STREAM SURFACE AREA	1730 FT ²
TOTAL IMPACTED LENGTH	203 FT

PROPOSED CONDITIONS

OPEN STREAM IMPACT LENGTH	98 FT
STRUCTURE LENGTH	90 FT
TOTAL IMPACTED LENGTH	188 FT

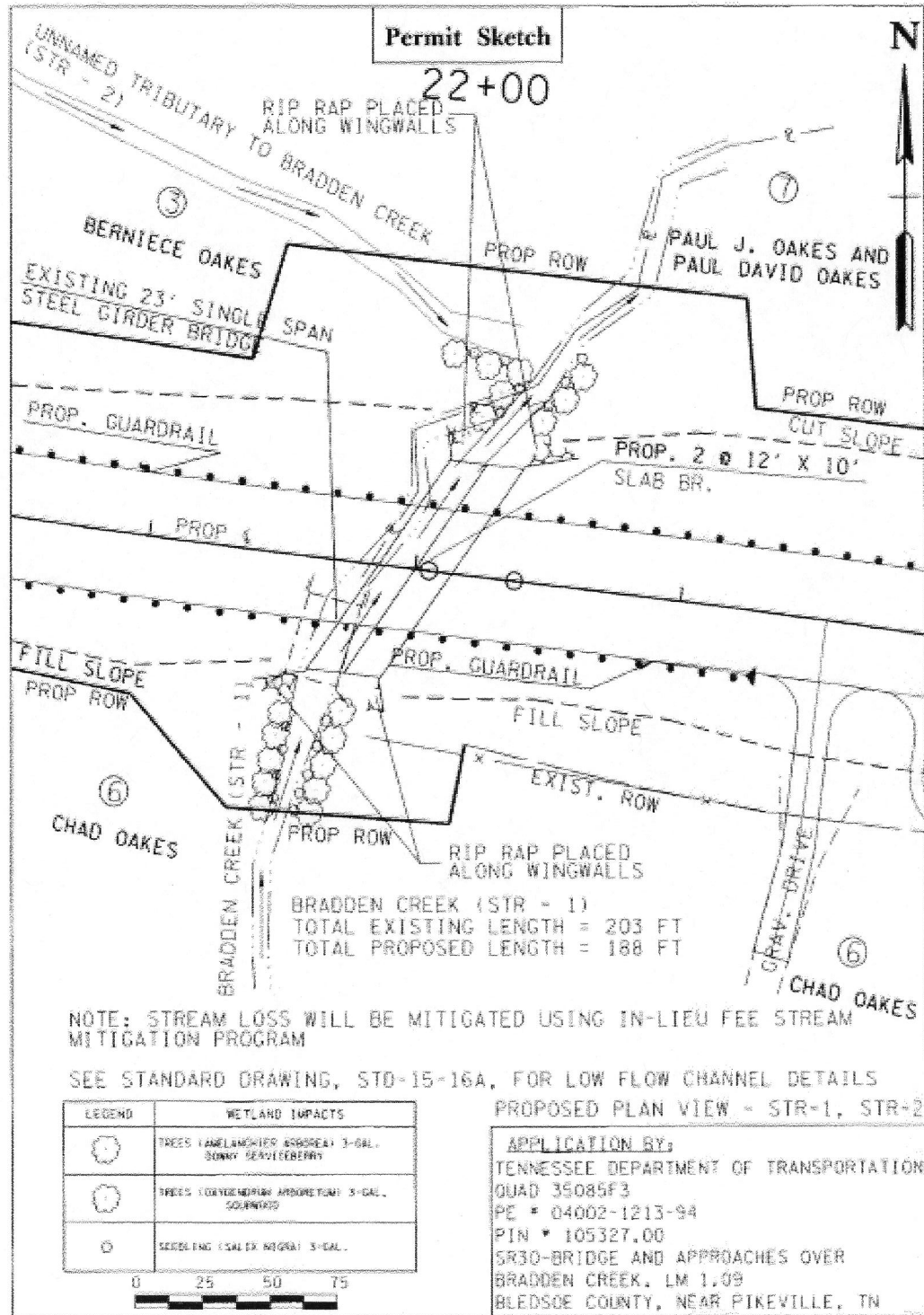
STA. 22+00 TO STA. 22+40

UNNAMED TRIBUTARY (STR-2)

TOTAL EXISTING LENGTH	40 FT
TOTAL PROPOSED LENGTH	40 FT

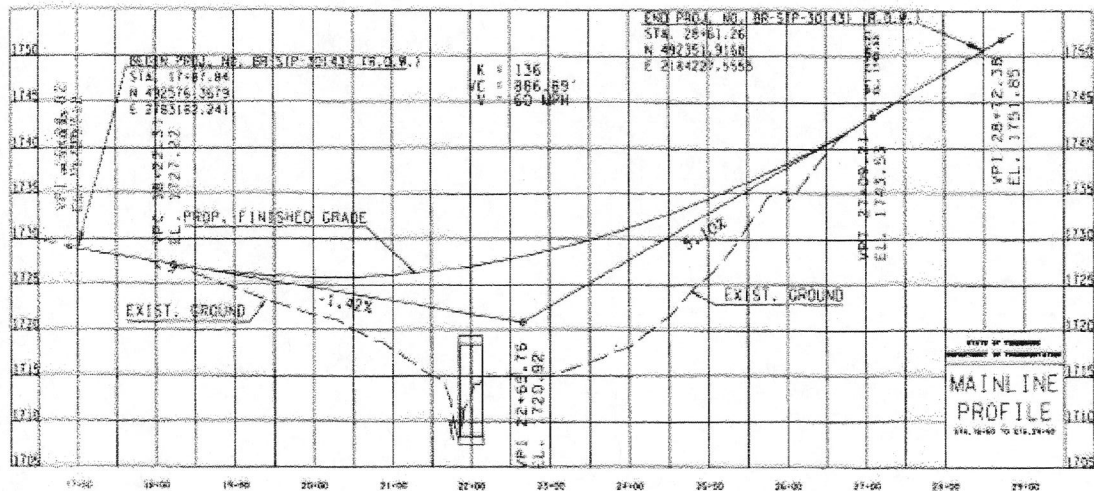
APPLICATION BY:

TENNESSEE DEPARTMENT OF TRANSPORTATION
 QUAD 35045F3
 PE = 04002-1213-94
 PIN = 105327.00
 SR30-BRIDGE AND APPROACHES OVER
 BRADDEN CREEK, LM 1.09
 BLEDSOE COUNTY, NEAR PIKEVILLE, TN



DATE: 10/10/09

REVISED: / /



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**MAINLINE
PROFILE**
STA. 10+00 TO 29+00

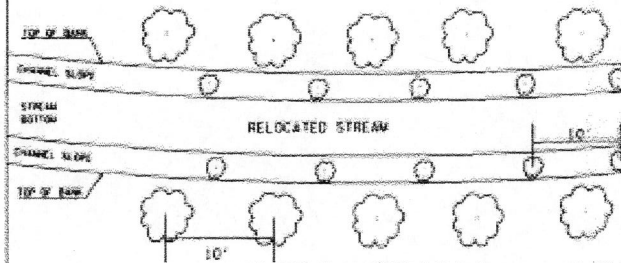
Permit Sketch

APPLICATION BY
TENNESSEE DEPARTMENT OF TRANSPORTATION
QUAD 35085F3
PE " 04002-1213-98
PIN " 105527.00
SR30-BRIDGE AND APPROACHES OVER
BRADDOEN CREEK, LM 1.03
BLEDSOE COUNTY, NEAR PIKEVILLE, TN

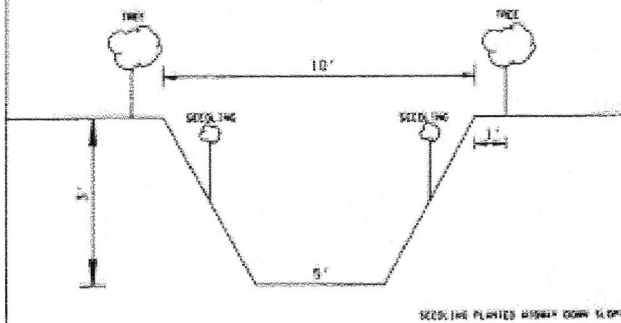
SHEET 5 OF 8

Permit Sketch

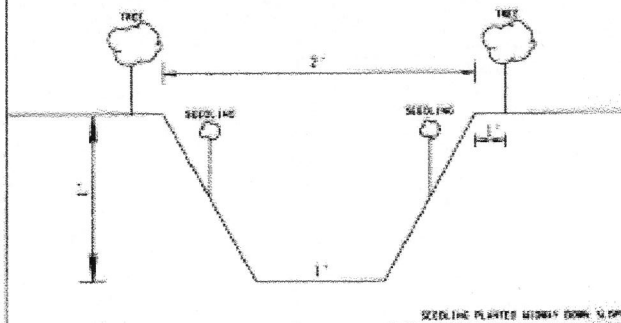
PLAN VIEW SPACING FOR PLANTING ALONG STM-1 AND STM-2
(NOT TO SCALE)



CROSS-SECTION VIEW SPACING FOR PLANTING ALONG STM-1
(NOT TO SCALE)



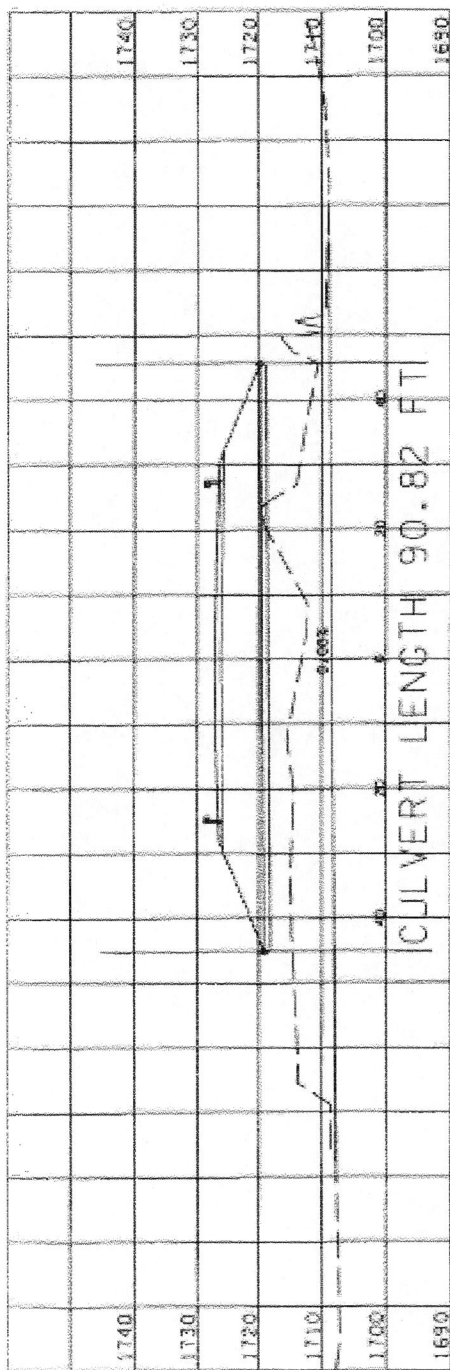
CROSS-SECTION VIEW SPACING FOR PLANTING ALONG STM-2
(NOT TO SCALE)



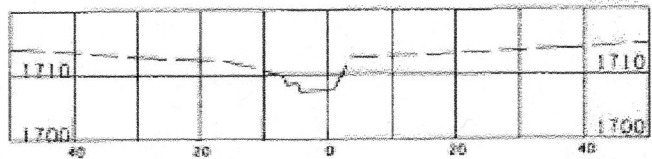
PROPOSED PLANTING

TREE	AMELANCHIER ARBOREA, (DOWNY SERVICEBERRY) - 3/4" - 1 1/4"
TREE	OXYBENCLER ARBOREUM, (SOURWOOD) - 3/4" - 1 1/4" 3 GAL
SEEDLING	SALIX NIGRA, (BLACK WILLOW) - 16" - 24" HT, C, 3 GAL

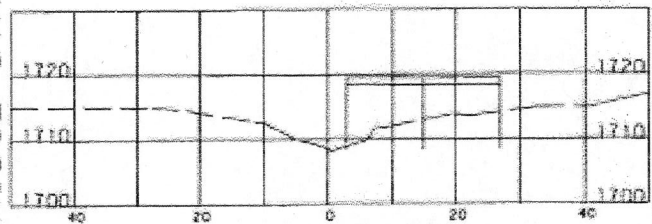
APPLICATION BY:
TENNESSEE DEPARTMENT OF TRANSPORTATION
QUAD 35085F3
PE # 04002-1213-94
PIN # 105327.00



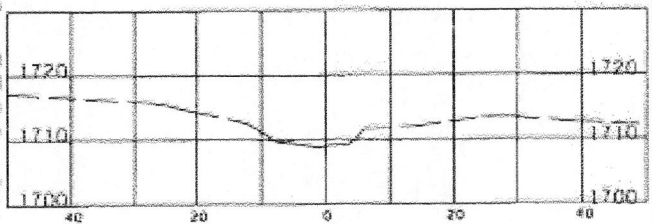
PROPOSED SLAB BRIDGE STA. 22+00



EXISTING CROSS-SECTION
DOWNSTREAM



PROPOSED
SLAB BRIDGE



EXISTING CROSS-SECTION
UPSTREAM

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QUAD 35085F3
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SR30 - BRIDGE AND APPROACHES OVER
BRADDEN CREEK
BLEDSOE COUNTY, NEAR PIKEVILLE, TN

Permit Sketch

CHANNEL RELOCATION SEQUENCE AND IMPLEMENTATION NOTES FOR RELOCATED STREAM CHANNELS (IGNORE REFERENCES TO ITEMS NOT SPECIFIED)

1. THE NEW CHANNEL SHALL BE EXCAVATED AND STABILIZED DURING A LOW-WATER PERIOD. RIP-RAP (ONLY AS SHOWN ON PLANS), SEEDING, AND SOD SHALL BE INSTALLED IMMEDIATELY FOLLOWING CHANNEL COMPLETION. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON FOLLOWING CHANNEL EXCAVATION. WATER SHALL BE DIVERTED INTO THE NEW CHANNEL ONLY AFTER IT IS COMPLETELY STABILIZED, AND ONLY DURING A LOW-WATER PERIOD. STABILIZED MEANS THAT ALL SPECIFIED ROCK AND EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER IS IN PLACE, AND SEEDING AND SOD ARE IN PLACE AND ESTABLISHED.
2. CHANNEL RELOCATION SEQUENCE
 - a. FLAG EDGE OF THE NEW CHANNEL TOP BANK PRIOR TO CLEARING. DO NOT CLEAR LARGE TREES IN POSITION TO SHADE THE NEW CHANNEL. LEAVE AS MANY TREES AND SHRUBS AS POSSIBLE BETWEEN TOES OF THE NEW HIGHWAY SLOPE AND THE STREAM.
 - b. EXCAVATE THE NEW CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.
 - c. SHAPE CHANNEL TO SPECIFICATIONS SHOWN. REMOVE LOOSE SOILS AND DEBRIS.
 - d. PLACE TOPSOIL, EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER, SEED, AND SOD AS SPECIFIED.
 - e. REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWNSTREAM, BANKS AND BOTTOM ELEVATION OF THE OLD CHANNEL SHOULD TRANSITION SMOOTHLY INTO THE NEW CHANNEL. THE ELEVATIONS OF THE NEW CHANNEL BOTTOM AT EACH END OF THE RELOCATION SEQUENCE SHOULD MATCH THE ELEVATIONS OF THE EXISTING CHANNEL, AND A STEADY PERCENT SLOPE SHOULD BE MAINTAINED THROUGHOUT THE RELOCATED CHANNEL CENTERLINE OR AS SPECIFIED.
 - f. INSTALL TREES ACCORDING TO THE STANDARD SPECIFICATIONS SECTION 802.
3. ONLY RIP-RAP SHOWN ON PLANS SHOULD BE USED IN THE RELOCATED CHANNEL REACH. ANY OTHER PROPOSED RIP-RAP SHOULD BE COORDINATED WITH THE ENVIRONMENTAL DIVISION THROUGH THE TDOT HEADQUARTERS CONSTRUCTION OFFICE.
4. REQUESTS BY ANY AGENCY THAT WOULD REQUIRE THE MODIFICATION OF CHANNELS, DITCHES, ELEVATIONS, RIP-RAP OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATIONS SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL DIVISION VIA THE HEADQUARTERS CONSTRUCTION OFFICE FOR COORDINATION WITH ALL INVOLVED AGENCIES AND TDOT DIVISIONS.

TREES, SHRUBS, AND SEEDLINGS

NO SUBSTITUTIONS OF PLANT SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF TDOT ENVIRONMENTAL DIVISION. CONCERNING STREAM MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED AND FIRST QUALITY. CONCERNING TEMPORARY WETLAND MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED, WELL BRANCHED, BARE ROOT (ROOTS MUST BE KEPT MOIST AT ALL TIMES), AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE SOME TIME TO LOCATE.

ALL PLANTS SHALL BE PLANTED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.

PLANTS SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.

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QUAD 35085F3
PE # 04002-1213-94
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